

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 4, 2006, 13:58:25 ; Search time 16 Seconds
(without alignments)
623.987 Million cell updates/sec

Title: US-10-612-012-2

Perfect score: 4331

Sequence: 1 MSVSPQIPSRPLLLTHE.....AAPDGGFTVTRPGLNSKL 852

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 88029 seqs, 11718060 residues

Total number of hits satisfying chosen parameters: 88029

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New.*

- 1: /cgn2_6/prodata/2/pubpaa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/prodata/2/pubpaa/US06_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/2/pubpaa/US07_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 5: /cgn2_6/prodata/2/pubpaa/US09_NEW_PUB.pep.*
- 6: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep.*
- 7: /cgn2_6/prodata/2/pubpaa/US11_NEW_PUB.pep.*
- 8: /cgn2_6/prodata/2/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1410	32.6	820	6	US-10-467-657-4910
2	1395.5	32.2	804	7	US-11-070-080-18
3	156	3.6	824	6	US-10-957-569-31
4	156	3.6	824	7	US-11-097-589-29
5	153.5	3.5	817	6	US-10-793-626-50
6	153.5	3.5	817	6	US-10-793-626-1528
7	150.5	3.5	611	6	US-10-454-437-54
8	150.5	3.5	697	6	US-10-485-517-202
9	150.5	3.5	925	6	US-10-454-437-50
10	144.5	3.3	716	6	US-10-131-826A-96
11	143	3.3	220	7	US-11-040-595-4
12	141.5	3.3	769	6	US-10-467-657-3280
13	141	3.3	655	6	US-10-467-657-3168
14	134.5	3.1	825	7	US-11-074-176-20
15	134	3.1	389	6	US-10-821-234-1401
16	133.5	3.1	1786	6	US-11-196-400-3
17	132	3.0	350	6	US-10-454-437-40
18	131	3.0	709	7	US-11-074-176-158
19	129.5	3.0	2665	7	US-11-124-368A-214
20	129.5	3.0	2668	7	US-11-124-368A-215
21	127.5	2.9	859	6	US-10-467-657-6084
22	126.5	2.9	488	6	US-10-485-517-307
23	125.5	2.9	459	6	US-10-467-657-3092
24	124.5	2.9	440	6	US-10-821-234-1330
25	124	2.9	1960	7	US-11-069-834-48

RESULT 1
US-10-467-657-4910
; Sequence 4910, Application US/10467657
; Publication No. US2005020581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON Spa
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqMan99, version 1.04
; SEQ ID NO 4910
; LENGTH: 820
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-4910

ALIGNMENTS

26	124	2.9	1960	7	US-11-069-834-50	Sequence 50, Appl
27	123.5	2.9	426	6	US-10-454-437-70	Sequence 70, Appl
28	123.5	2.9	426	6	US-10-454-437-72	Sequence 72, Appl
29	122	2.8	420	7	US-11-074-176-48	Sequence 48, Appl
30	120	2.8	406	6	US-10-821-234-1349	Sequence 1349, Ap
31	120	2.8	406	6	US-10-878-558A-192	Sequence 192, App
32	119	2.7	980	7	US-11-064-246-10	Sequence 10, Appl
33	119	2.7	980	7	US-11-169-041-141	Sequence 141, App
34	119	2.7	1652	6	US-10-995-561-663	Sequence 663, App
35	119	2.7	1938	6	US-10-995-561-661	Sequence 661, App
36	119	2.7	1938	6	US-10-995-561-662	Sequence 662, App
37	119	2.7	1954	6	US-10-995-561-660	Sequence 660, App
38	119	2.7	1972	6	US-10-995-561-664	Sequence 664, App
39	119	2.7	1972	6	US-10-995-561-666	Sequence 666, App
40	118	2.7	1268	6	US-10-995-561-918	Sequence 918, App
41	118	2.7	1268	6	US-10-995-561-919	Sequence 919, App
42	118	2.7	1268	6	US-10-995-561-920	Sequence 920, App
43	116	2.7	989	6	US-10-821-234-975	Sequence 975, App
44	115.5	2.7	2890	7	US-11-115-639-32	Sequence 32, Appl
45	115	2.7	1618	6	US-10-984-645-2	Sequence 2, Appl

Query Match	32.6%	Score 1410;	DB 6;	Length 820;
Best Local Similarity	40.3%	Pred. No. 1.1e-94;		
Matches 311;	Conservative 153;	Mismatches 256;	Indels 52;	Gaps 12;
QY	65	DPASDAQDPLPHRIGTAALAVQVGSNPKPHYTLITGLCRFOIVQVLEKPKYPIAEV 124		
Db	60	DAAVEPVAATDLYQTGTVAQVLVL--KLPGTVKVLVEGLYRGRVLATIEDTGGFLVSHI 117		
QY	125	EQLDLLEFPPTCKWRBELGSEQFYKYAVQLVEMLDMSVPA--VAKLRLLDSLPREA 182		
Db	118	BAVVEEDTGGNT-DLEAVRRTLLAQFQYA-----KLNKKIPAEITGSINGIAEN---SR 168		
QY	183	LPDILTSIRTSNKEKQLQILDVAVLEERFKMTIPLLVRQIEGLKLLQKTR---KPKQDD 239		
Db	169	LTDIVAAHLQKLAQRQQLILPEIGKMEFLAKLESELDIMOAEKIRGRVKEQMEKS 228		
QY	240	KRVIAIRPIRITHISGTLEDEDEDNDIVMLEKKIRTSMPEQAHKVCVKETKRLCK 299		
Db	229	QREYTLN--EQIKAIHKELGEDE---NGELDAEAGIKAGMTKEASEKCLSELKCLKM 283		
QY	300	MPQSPPEVALTNYLELNVLPWNKSTTDRDIRAARILLNDHYAMEKLRVLYEYLAV 359		
Db	284	MPPMSAESTVVRNYIDTLLGLPFWKKSRVSKDIKAKAGLVLDADHYGLEKVERILEYLAV 343		

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OM protein - protein search, using sw model

Run on: February 4, 2006, 13:56:40 ; Search time 50 Seconds
(without alignments)
1408.794 Million cell updates/sec

Title: US-10-612-012-2
Perfect score: 4331
Sequence: 1 MSSVSPQIPSRPLLLTHE.....AAPDGGFTVTRPGLLSKL 852

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pdp:*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pdp:*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pdp:*
4: /cgn2_6/ptodata/1/iaa/PCTRUS_COMB.pdp:*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pdp:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pdp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4331	100.0	852	2	US-09-741-150-2
2	4331	100.0	852	2	US-10-160-187-2
3	1869.5	43.2	884	2	US-09-741-150-4
4	1869.5	43.2	884	2	US-10-160-187-4
5	1745.5	40.3	810	2	US-09-902-340-11337
6	1407.5	32.5	820	2	US-09-252-991A-30204
7	1406.5	32.5	832	2	US-09-540-236-3056
8	1396.5	32.2	790	2	US-09-543-681A-6059
9	1390.5	32.1	822	2	US-09-328-352-5754
10	1378	31.8	845	2	US-09-489-039A-13590
11	1284	29.6	809	2	US-09-252-991A-29280
12	1251	28.9	937	1	US-08-253-155A-31
13	1251	28.9	937	2	US-09-538-092-1092
14	1251	28.9	937	2	US-09-949-002-374
15	1250	28.9	959	2	US-09-538-092-1091
16	1224	28.3	825	2	US-09-438-185A-29
17	1123	25.9	838	2	US-09-248-796A-17648
18	976	22.5	782	2	US-09-248-796A-16773
19	886	20.5	440	2	US-09-198-452A-44
20	407	9.4	562	2	US-09-949-002-426
21	390	9.0	458	2	US-09-270-767-46541
22	353	8.2	157	2	US-09-861-451A-8
23	336	7.8	424	2	US-09-198-452A-45
24	327	7.6	191	2	US-09-270-767-62133
25	165	3.8	3433	2	US-09-091-501B-10
26	165	3.8	3433	2	US-09-538-092-1136
27	162.5	3.8	900	2	US-09-248-796A-16848

28	161	3.7	761	2	US-09-328-352-7492	Sequence 7492, Ap
29	159	3.7	701	2	US-09-134-001C-3327	Sequence 3327, Ap
30	156.5	3.6	767	2	US-09-252-991A-31198	Sequence 31198, A
31	153.5	3.5	817	2	US-09-710-279-50	Sequence 50, Appl
32	153.5	3.5	817	2	US-09-710-279-1528	Sequence 1528, Ap
33	153.5	3.5	823	2	US-09-134-001C-4081	Sequence 4081, Ap
34	153.5	3.5	863	2	US-09-328-352-6730	Sequence 6730, Ap
35	152.5	3.5	726	2	US-09-252-991A-26767	Sequence 26767, A
36	152	3.5	422	2	US-09-134-001C-3034	Sequence 3034, Ap
37	151	3.5	335	2	US-09-134-000C-4044	Sequence 4044, Ap
38	150.5	3.5	611	2	US-09-602-777A-54	Sequence 54, Appl
39	150.5	3.5	697	2	US-08-816-177-2	Sequence 2, Appl
40	150.5	3.5	925	2	US-09-602-777A-50	Sequence 50, Appl
41	150	3.5	724	2	US-09-489-039A-12100	Sequence 12100, A
42	146.5	3.4	556	2	US-09-134-000C-3848	Sequence 3848, Ap
43	146	3.4	503	2	US-09-328-352-6479	Sequence 6479, Ap
44	145.5	3.4	689	2	US-09-134-000C-4499	Sequence 4499, Ap
45	145	3.3	546	2	US-09-489-039A-9627	Sequence 9627, Ap

ALIGNMENTS

RESULT 1
US-09-741-150-2
; Sequence 2, Application US/09741150
; Patent No. 6436689
; GENERAL INFORMATION:
; APPLICANT: GUEGLER, Karl et al
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: CLO00988
; CURRENT APPLICATION NUMBER: US/09/741,150
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 852
; TYPE: PRT
; ORGANISM: Human
US-09-741-150-2

Query Match	100.0%	Score 4331	DB 2	Length 852
Best Local Similarity	100.0%	Pred. No. 0		
Matches 852	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	MSSVSPQIPSRPLLLTHEGVLLPGSTWRTSVDSAHNLQVRSRLKGTSLQSTILGVI	60	
DB	1	MSSVSPQIPSRPLLLTHEGVLLPGSTWRTSVDSAHNLQVRSRLKGTSLQSTILGVI	60	
QY	61	PNTDPPASDAQDLPPLHRTGTAALAAVQVVGSNWPKPHYTLITGLCRFQIVQVLKEKPY	120	
DB	61	PNTDPPASDAQDLPPLHRTGTAALAAVQVVGSNWPKPHYTLITGLCRFQIVQVLKEKPY	120	
QY	121	IAEVEQLDLEFPNTCKVREELGELSEQFYKAVOLVEMLDMSVPAVKRLLSLPR	180	
DB	121	IAEVEQLDLEFPNTCKVREELGELSEQFYKAVOLVEMLDMSVPAVKRLLSLPR	180	
QY	181	EALPDILTITISNKKELQILDVLSLEERFKMTIPLLVRQIEGLKLLQKTRPKQDDDK	240	
DB	181	EALPDILTITISNKKELQILDVLSLEERFKMTIPLLVRQIEGLKLLQKTRPKQDDDK	240	
QY	241	RVIATIRPIRITHISGTLDEDEDEDEDDIVMLEKKIRTSSMPEQAHKVCVKIKLKKM	300	
DB	241	RVIATIRPIRITHISGTLDEDEDEDEDDIVMLEKKIRTSSMPEQAHKVCVKIKLKKM	300	
QY	301	QPSMEYALTRYLMLVLELWELPWNKSTTDRLDRAARILLDNDHYAMEKLVLEAVR	360	
DB	301	QPSMEYALTRYLMLVLELWELPWNKSTTDRLDRAARILLDNDHYAMEKLVLEAVR	360	
QY	361	QLKNLKGPILCFVGPPGVGKTSVGRSVAKTILGRPHRIALGVCVQDSIRGHRRTYVGS	420	

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OM protein - protein search, using sw model

Run on: February 4, 2006, 13:48:40 ; Search time 259 Seconds

(without alignments)
2320.888 Million cell updates/sec

Title: US-10-612-012-2

Perfect score: 4331

Sequence: 1 MSSVSPIQIPSRPLPILLTHE.....AAFDGGFTVKTRPGLLSKL 852

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

UniProt_05.80.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
1	4323	99.8	852	2	Q86W48	HUMAN	Q86W48 homo sapien
2	4319	99.7	852	2	Q8CXB9	HUMAN	Q8CXB9 homo sapien
3	4292	99.1	852	2	Q5R6M5	PONPY	Q5R6M5 pongo pygma
4	4154	95.9	852	2	Q3DBN5	MOUSE	Q3DBN5 m mus muscu
5	3629	83.8	715	2	Q8N3B9	HUMAN	Q8N3B9 homo sapien
6	3376	77.9	840	2	Q5PQV6	BRARE	Q5PQV6 brachydanio
7	2972	68.6	581	2	Q96K43	HUMAN	Q96K43 homo sapien
8	2863	66.1	806	2	Q6TX13	RAT	Q6TX13 rattus norv
9	2089	48.2	432	2	Q8BK80	MOUSE	Q8BK80 mus musculu
10	1890.5	43.7	874	2	Q4T681	TETNG	Q4T681 tetraodon n
11	1869.5	43.2	885	1	LN0H1	MAIZE	P93647 zea mays (m
12	1861	43.0	884	2	Q94F60	9POAL	Q94F60 dichantheli
13	1850	42.7	886	2	Q6RS97	WHEAT	Q6RS97 triticum ae
14	1849	42.7	888	1	LN0H1	ARATH	O64948 arabidopsis
15	1846.5	42.6	884	2	Q6GV57	ORYSA	Q6GV57 oryza sativ
16	1812.5	41.8	880	2	Q5SHZ2	ORYSA	Q5SHZ2 oryza sativ
17	1801	41.6	875	1	LN0H1	SPIOL	O04979 spinacia ol
18	1784	41.2	843	2	LN0P66	9DELTA	Q4NPW6 anaeromykob
19	1745.5	40.3	826	1	LN02	MYXXA	P36774 myxococcus
20	1596	36.9	819	2	Q74752	GEOSL	Q74752 geobacter s
21	1585.5	36.6	788	2	Q82V32	NITEU	Q82V32 nitrosonoma
22	1573	36.3	775	2	Q5KWK1	GEOKA	Q5KWK1 geobacillus
23	1561	36.0	774	2	Q5GJ36	BACLD	Q5GJ36 bacillus li
24	1559.5	36.0	776	2	Q817Q4	BACCR	Q817Q4 bacillus ce
25	1546.5	35.7	796	2	Q9B21	BRADJ	Q9B21 bradyrhizob
26	1545.5	35.7	776	2	Q6HSS4	BACAN	Q6HSS4 bacillus an
27	1545	35.7	557	2	Q6GT60	ARATH	Q6GT60 arabidopsis
28	1544.5	35.7	776	2	Q633X4	BACC2	Q633X4 bacillus ce
29	1543.5	35.6	773	2	Q6HLC1	BACAN	Q6HLC1 bacillus an
30	1541.5	35.6	776	2	Q6HDS6	BACHK	Q6HDS6 bacillus th
31	1540	35.6	856	2	Q72CU2	DESVH	Q72CU2 desulfovibr

32	1535.5	35.5	773	2	Q4MS75	BACCE	Q4MS75 bacillus ce
33	1535.5	35.5	773	2	Q72ZV6	BACCI	Q72ZV6 bacillus ce
34	1535	35.4	772	2	Q8CXB9	OCEIH	Q8CXB9 oceanobacil
35	1525.5	35.2	774	2	Q9K8F6	BACRD	Q9K8F6 bacillus na
36	1525	35.2	783	2	Q7MM22	BORBR	Q7MM22 bordetella
37	1525	35.2	783	2	Q7WBH0	BORPA	Q7WBH0 bordetella
38	1509	34.8	778	2	Q8RC23	THETN	Q8RC23 thermoaer
39	1506	34.8	779	1	LN0N	BRECH	P36772 brevibacill
40	1498	34.6	775	2	Q5WE91	BACSK	Q5WE91 bacillus cl
41	1497	34.6	774	1	LN0L	BACSU	P37945 bacillus su
42	1493	34.5	779	2	Q84FG5	9BACL	Q84FG5 brevibacill
43	1482	34.2	768	2	Q74EN9	GEOSL	Q74EN9 geobacter s
44	1477.5	34.1	932	2	Q4WVD9	ASPFU	Q4WVD9 aspergillus
45	1476.5	34.1	937	2	Q7SA85	NEUCR	Q7SA85 neurospora

ALIGNMENTS

RESULT 1

Q86W48_HUMAN
ID Q86W48_HUMAN PRELIMINARY; PRT; 852 AA.
AC Q86W48;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Peroxisomal lon protease.
GN Name=LONP;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA De Walque S., Van Veldhoven P.P.;
RL Submitted (FEB-2003) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Brain;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.2426038999;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McGowan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield J.S., Krzyzanski M.I., Skalska U., Smallus D.B.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Brain;
RG NIH MGC Project;
RL Submitted (APR-2005) to the EMBL/GenBank/DBJ databases.
EMBL; AJ548761; CAD68987.1; -; mRNA.
EMBL; BC093912; AAH93912.1; -; mRNA.
EMBL; BC093910; AAH93910.1; -; mRNA.
HSP; P08177; IRR9.
MEROPS; S16.006; -.
Ensembl; ENSG00000102910; Homo sapiens.
GO; GO:0005524; P:ATP binding; IEA.

Result No.	Score	Query Match	Length	DB	ID	Description
1	1869.5	43.2	885	1	T04321	endopeptidase La h
2	1801	41.6	875	2	T09142	endopeptidase La h
3	1745.5	40.3	827	1	A36895	endopeptidase La (
4	1525.5	35.2	774	2	B84031	ATP-dependent prot
5	1506	34.8	779	1	B42375	endopeptidase La (
6	1497	34.6	774	1	I40421	endopeptidase La (
7	1473.5	34.0	817	1	A49844	endopeptidase La (
8	1467	33.9	821	2	B75530	ATP-dependent prot
9	1453.5	33.6	813	2	G75331	ATP-dependent prot
10	1445.5	33.4	787	2	A72230	endopeptidase La (
11	1433	33.1	820	2	H81908	probable endopepti
12	1426	32.9	820	2	H81106	ATP-dependent prot
13	1406.5	32.5	798	2	G83420	Lon proteinase PA1
14	1403.5	32.4	786	2	G82141	ATP-dependent La p
15	1400.5	32.3	799	2	C87492	ATP-dependent prot
16	1398	32.3	795	1	A70322	endopeptidase La (
17	1393	32.2	778	2	E97224	ATP-dependent Lon
18	1372.5	31.7	783	2	A80558	Lon protease [impo
19	1372	31.7	823	2	AF3361	endopeptidase La (
20	1371.5	31.7	779	2	E97778	endopeptidase La (
21	1369.5	31.6	805	2	A82731	ATP-dependent prot
22	1369.5	31.6	805	2	G97512	ATP-dependent prot
23	1368	31.6	848	2	C82712	ATP-dependent seri
24	1367.5	31.6	784	1	SC5CLA	endopeptidase La (
25	1367	31.6	810	1	JC5045	endopeptidase La (
26	1365.5	31.5	784	1	A71704	endopeptidase La (
27	1364	31.5	803	1	A64070	endopeptidase La (
28	1362.5	31.5	784	2	E90699	endopeptidase La (
29	1358	31.4	799	2	A85541	hypothetical prote

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OM protein - protein search, using sw model

Run on: February 4, 2006, 13:48:20 ; Search time 200 Seconds

(without alignments)
1871.754 Million cell updates/sec

Title: US-10-612-012-2

Perfect score: 4331

Sequence: 1 MSSVSPFIQPSRLPLLLTHE.....AAFDGGFTVKTRPGLNSKL 852

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

A: Geneseq 21.*

1: Geneseq1980s.*

2: Geneseq1990s.*

3: Geneseq2000s.*

4: Geneseq2001s.*

5: Geneseq2002s.*

6: Geneseq2003as.*

7: Geneseq2003bs.*

8: Geneseq2004s.*

9: Geneseq2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4331	100.0	852	5	ABG32363 Human ATP
2	4331	100.0	852	7	ADM56266 Human ATP
3	4331	100.0	852	9	ADW85873 Human pro
4	4323	99.8	852	7	AAb47562 Protease
5	4323	99.8	852	7	ADC10040 Human NOV
6	4319	99.7	852	4	AAm93785 Human pol
7	4319	99.7	852	8	ADL31771 Human pro
8	4316	99.7	852	5	ABP69443 Human pol
9	3520	81.3	693	7	ADJ70423 Human hea
10	2972	68.6	581	4	AAb95332 Human pro
11	2972	68.6	581	4	AAb99179 Human ATP
12	2957	68.3	581	8	ADR08963 Human pro
13	2921	67.4	571	4	AAb94288 Human pro
14	2201	50.8	432	4	AAb97167 Human ATP
15	2201	50.8	432	4	AAE11085 Human ATP
16	2165	50.0	433	6	ABU11611 Human MDD
17	1983.5	45.8	423	3	AAU17375 Novel sig
18	1983.5	45.8	423	7	ADB94083 Human nov
19	1974	45.6	391	5	ABB89248 Human pol
20	1869.5	43.2	884	7	ADM56268 Human ATP
21	1869.5	43.2	884	9	ADW85875 Zea maye
22	1849	42.7	887	8	ADN74069 Thale cre
23	1840.5	42.5	887	8	ADT60761 Plant pol
24	1745.5	40.3	810	9	ABM92138 M. xanthu

25	1745.5	40.3	827	8	ADS30399	Ads30399 Bacterial
26	1585.5	36.6	770	8	ADS30692	Ads30692 Bacterial
27	1557.5	36.0	769	8	ADS27589	Ads27589 Bacterial
28	1546.5	35.7	794	6	ABU17842	Abu17842 Protein e
29	1540.5	35.6	767	8	ADN27141	Adn27141 Bacterial
30	1540	35.6	786	8	ADN26262	Adn26262 Bacterial
31	1525.5	35.2	774	8	ADS28353	Ads28353 Bacterial
32	1497	34.6	774	8	ADS44794	Ads44794 Bacterial
33	1470.5	34.0	817	8	ADS30184	Ads30184 Bacterial
34	1468.5	33.9	771	8	ADS21365	Ads21365 Bacterial
35	1467	33.9	821	8	ADS44986	Ads44986 Bacterial
36	1461	33.7	777	8	ADN26487	Adn26487 Bacterial
37	1453.5	33.6	813	8	ADN17992	Adn17992 Bacterial
38	1450	33.5	788	8	ADS22145	Ads22145 Bacterial
39	1446.5	33.4	773	6	ABU24441	Abu24441 Protein e
40	1445.5	33.4	787	8	ADN20397	Adn20397 Bacterial
41	1433	33.1	820	6	ABU37980	Abu37980 Protein e
42	1426	32.9	789	6	ABU25481	Abu25481 Protein e
43	1426	32.9	820	8	ADP08282	Adp08282 Neisseria
44	1415.5	32.7	804	6	ABU39533	Abu39533 Protein e
45	1414.5	32.7	816	9	ABE41304	Aeb41304 L. pneumo

ALIGNMENTS

RESULT 1

ABG32363

ID ABG32363 standard; protein; 852 AA.

XX AC ABG32363;

DT 15-NOV-2002 (first entry)

XX DE Human ATP-dependent protease.

XX KW Human; enzyme; ATP-dependent protease; developmental disorder; cancer;

KW retinoblastoma; melanotic melanoma; endometrial adenocarcinoma;

KW ovarian adenocarcinoma; schizophrenia.

XX OS Homo sapiens.

XX PN US2002081704-A1.

XX PD 27-JUN-2002.

XX PF 21-DEC-2000; 2000US-00741150.

XX PR 22-NOV-2000; 2000US-0252410P.

XX PA (GUEG/) GUEGLER K.

XX PA (WEBB/) WEBSTER M.

XX PA (YANC/) YAN C.

XX PA (SHAO/) SHAO W.

XX PA (KTC/) KETCHUM K A.

XX PA (DRA/) DI FRANCESCO V.

XX PA (BEAS/) BEASLEY B M.

XX PI Guegler K, Webster M, Yan C, Shao W, Ketchum KA, Di Francesco V;

XX PI Beasley BM;

XX DR WPI; 2002-635469/68

XX DR N-FSDB; ABK90887; ABK90888.

XX PT New human ATP-dependent peptides and encoding nucleic acids, useful for

PT diagnosing, preventing and/or treating disorders like cancer, e.g.

PT retinoblastomas, melanomas, endometrial and ovarian adenocarcinomas, and

PT schizophrenia.

XX PS Claim 1; Fig 2; 119pp; English.

XX CC The invention relates to a new isolated ATP-dependent protease (I) and

CC the nucleic acid encoding it. The peptides are useful in identifying

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OM protein - protein search, using sw model

Run on: February 4, 2006, 13:57:30 ; Search time 177 Seconds
(without alignments)
2011.246 Million cell updates/sec

Title: US-10-612-012-2

Perfect score: 4331

Sequence: 1 MSSVSPIQPSRLPLLTH.....AAPDGGFTVKTTRGLNSKL 852

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2_6/prodata/1/pubaa/US07_PUBCOMB.pap.*
- 2: /cgn2_6/prodata/1/pubaa/US08_PUBCOMB.pap.*
- 3: /cgn2_6/prodata/1/pubaa/US09_PUBCOMB.pap.*
- 4: /cgn2_6/prodata/1/pubaa/US10A_PUBCOMB.pap.*
- 5: /cgn2_6/prodata/1/pubaa/US10B_PUBCOMB.pap.*
- 6: /cgn2_6/prodata/1/pubaa/US11_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4331	100.0	852	US-09-741-150-2	Sequence 2, Appli
2	4331	100.0	852	US-10-612-012-2	Sequence 2, Appli
3	4323	99.8	852	US-10-239-032-4	Sequence 4, Appli
4	3520	81.3	693	US-10-408-765A-2229	Sequence 2229, Ap
5	3201	50.8	432	US-10-156-239-44	Sequence 44, Appli
6	1983.5	45.8	423	US-09-764-868-940	Sequence 940, App
7	1974	45.6	391	US-10-264-237-1624	Sequence 1624, Ap
8	1869.5	43.2	884	US-09-741-150-4	Sequence 4, Appli
9	1869.5	43.2	884	US-10-612-012-4	Sequence 4, Appli
10	1869.5	43.2	885	US-10-156-239-47	Sequence 47, Appli
11	1840.5	42.5	887	US-10-739-930-10838	Sequence 10838, A
12	1745.5	40.3	827	US-10-369-493-19432	Sequence 19432, A
13	1657.5	38.3	850	US-10-437-963-156016	Sequence 156016,
14	1585.5	36.6	770	US-10-369-493-19725	Sequence 19725, A
15	1557.5	36.0	769	US-10-369-493-16622	Sequence 16622, A
16	1546.5	35.7	794	US-10-282-122A-45766	Sequence 45766, A
17	1540.5	35.6	767	US-10-369-493-9794	Sequence 9794, Ap
18	1540	35.6	786	US-10-369-493-19386	Sequence 8915, Ap
19	1525.5	35.2	774	US-10-369-493-17386	Sequence 17386, A
20	1522	35.1	624	US-10-767-701-44549	Sequence 44549, A
21	1497	34.6	774	US-10-369-493-23224	Sequence 23224, A
22	1470.5	34.0	817	US-10-369-493-19217	Sequence 19217, A
23	1468.5	33.9	771	US-10-369-493-10398	Sequence 10398, A
24	1467	33.9	821	US-10-369-493-23416	Sequence 23416, A
25	1461	33.7	777	US-10-369-493-9140	Sequence 9140, Ap
26	1453.5	33.6	813	US-10-369-493-645	Sequence 645, App
27	1450	33.5	788	US-10-369-493-11178	Sequence 11178, A

ALIGNMENTS

RESULT 1

US-09-741-150-2

; Publication US/09741150

; Sequence 2, Application US/09741150

; GENERAL INFORMATION:

; APPLICANT: GUEGLER, Karl et al

; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND

; TITLE OF INVENTION: USES THEREOF

; FILE REFERENCE: CLO00968

; CURRENT APPLICATION NUMBER: US/09/741,150

; CURRENT FILING DATE: 2000-12-21

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 852

; TYPE: PRT

; ORGANISM: Human

US-09-741-150-2

Query Match 100.0%; Score 4331; DB 3; Length 852;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 852; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MSSVSP	IQPSRLPLLTH	EGVLLPGSTWRTS	VDSAHNLQVRSRL	LKGTSLQSTILGVI	60
Db	1	MSSVSP	IQPSRLPLLTH	EGVLLPGSTWRTS	VDSAHNLQVRSRL	LKGTSLQSTILGVI	60
Qy	61	PNTDP	PASDAQDLP	PLHRICTAALAVQV	VGSNWKPHYTLITGL	CRFOIVQVLEKPY	120
Db	61	PNTDP	PASDAQDLP	PLHRICTAALAVQV	VGSNWKPHYTLITGL	CRFOIVQVLEKPY	120
Qy	121	IAVEQ	LDRLREFPNTCK	REELGELSEQFYKAVQ	LVEMDMSVPAVAK	RLRLDLSLR	180
Db	121	IAVEQ	LDRLREFPNTCK	REELGELSEQFYKAVQ	LVEMDMSVPAVAK	RLRLDLSLR	180
Qy	181	BALPD	ILTSIRTSNKEKLIQ	LDVSLERFPMTIPLLVRQ	IEGLKLLQKTRKPKQDDK	240	
Db	181	BALPD	ILTSIRTSNKEKLIQ	LDVSLERFPMTIPLLVRQ	IEGLKLLQKTRKPKQDDK	240	
Qy	241	RVIAIR	PIRRIITHISG	TLEDEDEDND	IVMLEKKIRTSSMPEQ	AHKVCVKEIKRLKQM	300
Db	241	RVIAIR	PIRRIITHISG	TLEDEDEDND	IVMLEKKIRTSSMPEQ	AHKVCVKEIKRLKQM	300
Qy	301	QOSME	YALTRYLELMVEL	PWNKSTTRDLDAARAILL	DNDHYAMEKLEKRV	LEYLAVR	360
Db	301	QOSME	YALTRYLELMVEL	PWNKSTTRDLDAARAILL	DNDHYAMEKLEKRV	LEYLAVR	360
Qy	361	QKNNK	GPILCFVGP	PGVGKTSVGRS	VAKTIGREFPHRI	ALGVCVCDQSDIR	420